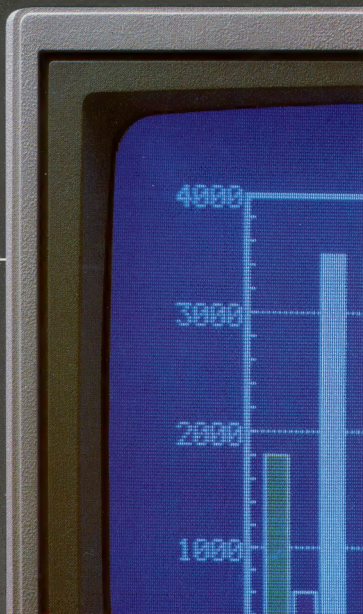
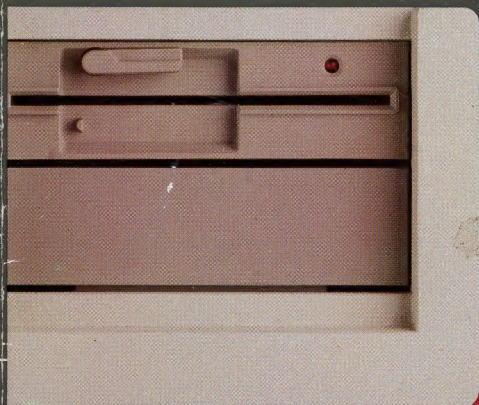


IBM Personal  
Computers

# Hardware Facts



IBM





## The high-performance line of IBM Personal Computers

IBM gives you a choice of five versatile, easily expandable personal computer systems: the IBM Personal Computer AT,<sup>™</sup> the IBM Personal Computer XT,<sup>™</sup> the IBM Personal Computer, the IBM *Portable* Personal Computer, and the IBM PCjr.<sup>™</sup> Each of these systems offers a number of advanced hardware design features and compatibility with a large selection of software programs. Whichever IBM PC you choose, you'll find a wide range of capabilities to meet your professional, educational, entertainment and personal needs.

- ▶ **IBM Personal Computer AT**

The IBM Personal Computer AT, IBM's most advanced and powerful personal computer, has the fastest processing speed and greatest storage capacity of all IBM Personal Computers. Available in two models, the Personal Computer AT offers expansion capabilities, support for a variety of options and, best of all, compatibility with other IBM Personal Computers and their extensive software library.

- ▶ **IBM Personal Computer XT**

The IBM Personal Computer XT offers large storage capacity, fast, convenient access to large amounts of information, and expansion capabilities that help you keep pace as your information management needs grow. It is a high-performance system that can handle many computing capabilities.

- ▶ **IBM Personal Computer**

The IBM Personal Computer is a cost-effective and versatile computer that has gained wide use and recognition. An extensive range of software products is available for the IBM PC, as are several expansion features that offer you added computing capabilities.

- ▶ **IBM *Portable* Personal Computer**

The IBM *Portable* Personal Computer goes where you go and works where you work—in the office or at home. As versatile as it is portable, the *Portable* PC can utilize a wide range of software and can be easily expanded for greater capabilities.

- ▶ **IBM PCjr**

The IBM PCjr is a compact, lightweight (less than 12 pounds) personal computer that offers a great deal of performance and versatility. Its performance comes from the same advanced 8088 microprocessor that is used in the IBM PC XT, IBM PC and IBM *Portable* PC. Its versatility comes from compatibility with thousands of software programs. In addition, the IBM PCjr gives you a choice of two models—the PCjr Enhanced Model and the PCjr Entry Model—each with a typewriter-like keyboard.

<sup>™</sup> IBM Personal Computer AT, IBM Personal Computer XT, and IBM PCjr are trademarks of International Business Machines Corporation.

## IBM Personal Computer AT

### System unit highlights at a glance:

#### *Enhanced Model*

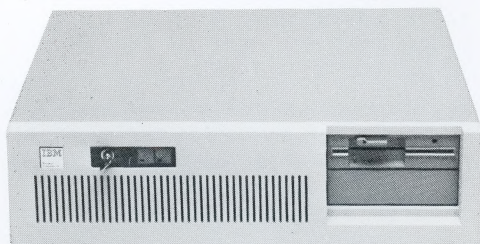
- ▶ 512KB (524,288 characters) user memory or RAM (Random Access Memory) standard, expandable to 3MB with memory expansion option cards.
- ▶ 21.2MB data storage standard (with one 1.2MB diskette drive and one 20MB fixed disk drive), expandable to 41.2MB.
- ▶ IBM Personal Computer AT Serial/Parallel Adapter.

#### *Base Model*

- ▶ 256KB (262,144 characters) RAM standard, expandable to 3MB with a memory module and memory expansion option cards.
- ▶ 1.2MB data storage standard (with one 1.2MB diskette drive), expandable to 41.2MB.

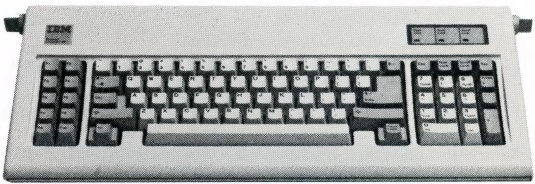
#### *Both IBM Personal Computer AT models include the following features:*

- ▶ Advanced, high-speed, 16-bit Intel 80286 micro-processor.
- ▶ 64KB (65,536 characters) permanent memory or ROM (Read Only Memory), including BASIC Interpreter, BIOS (Basic Input/Output System), and support for a battery-operated clock/calendar.
- ▶ Fixed Disk Drive/Diskette Drive Adapter that can support either one diskette drive and two fixed disk drives or two diskette drives and one fixed disk drive.
- ▶ Eight expansion slots for adapter cards that support additional memory and optional devices.<sup>1</sup>
- ▶ Receptacle for optional Intel 80287 Math Co-processor (for calculations).
- ▶ Keylock security device, built in to the system unit, which helps prevent operation of the keyboard by unauthorized users.
- ▶ Automatic Power-on Self-test of system components.



**Keyboard highlights at a glance:**

- ▶ 84-key, typewriter-like layout.
- ▶ 10-foot coiled cable for convenient positioning of keyboard.
- ▶ Tactile and audio feedback similar to that of the IBM PC and IBM PC XT Keyboard.
- ▶ 10-digit calculator keypad.
- ▶ 10 function keys for frequently used commands.
- ▶ Special "print screen" key for printing out the image that appears on the display screen.
- ▶ New, enlarged and clearly labeled enter/shift keys.
- ▶ Green LED indicators that light up when "Number Lock," "Scroll Lock" and "Caps Lock" keys are in use.



## IBM Personal Computer XT

### System unit highlights at a glance:

- ▶ 128KB (131,072 characters) or 256KB RAM standard, expandable to 640KB by adding memory feature cards.
- ▶ 40KB (40,960 characters) ROM, which contains BIOS and the easy-to-use BASIC language.
- ▶ 10.36MB data storage standard with one 10MB fixed disk drive and one 360KB-capacity (368,640 characters)<sup>2</sup> diskette drive.
- ▶ High-performance, high-speed, 16-bit Intel 8088 microprocessor.
- ▶ Built-in Asynchronous Communications Adapter that enables the IBM PC XT to communicate with a variety of outside devices and networks.
- ▶ Eight expansion slots that allow easy system expansion with optional plug-in adapters.<sup>3</sup>
- ▶ Speaker for audio and music applications.
- ▶ Automatic Power-on Self-test of system components.
- ▶ Optional IBM 8087 Math Co-processor, which greatly increases the speed of math calculations.





## IBM Personal Computer

### System unit highlights at a glance:

- ▶ 64KB or 256KB RAM standard, expandable to 640KB by adding memory feature cards.
- ▶ 40KB ROM, which contains BIOS and the easy-to-use BASIC language.
- ▶ Choice of no diskette drive, one single-sided diskette drive, or one or two double-sided diskette drives (capacity depends on the type of drive and DOS version).
- ▶ High-performance, high-speed, 16-bit Intel 8088 microprocessor.
- ▶ Five expansion slots that allow easy system expansion with optional plug-in adapters.<sup>4</sup>
- ▶ Speaker for audio and music applications.
- ▶ Automatic Power-on Self-test of system components.
- ▶ Optional IBM 8087 Math Co-processor, which greatly increases the speed of math calculations.



## IBM PC XT and IBM PC Keyboard

### Highlights at a glance:

- ▶ 83-key, typewriter-like layout.
- ▶ Six-foot coiled cable that permits convenient movement of the keyboard.
- ▶ Tactile and audio feedback to help reduce typing errors and enhance productivity.
- ▶ 10-digit calculator keypad for entering numbers quickly and easily.
- ▶ 10 special function keys to save time in activating commonly repeated tasks.
- ▶ Special "print screen" key that enables you to print out anything that appears on your display screen at any time.
- ▶ Typing angle that can be adjusted to suit your working position.



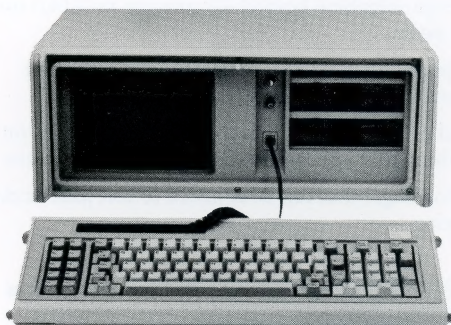
## **IBM *Portable* Personal Computer**

### **System unit highlights at a glance:**

- ▶ 256KB RAM standard, expandable to 640KB with memory expansion option card.
- ▶ 40KB ROM, which contains BIOS and the easy-to-use BASIC language.
- ▶ One or two 360KB-capacity slimline diskette drives.
- ▶ High-performance, high-speed, 16-bit Intel 8088 microprocessor.
- ▶ 9-inch (diagonal measurement) amber display.
- ▶ Diskette Drive Adapter and IBM Color/Graphics Monitor Adapter.
- ▶ Seven expansion slots that allow easy system expansion with optional plug-in adapters.<sup>5</sup>
- ▶ Protective carrying case.
- ▶ Optional IBM 8087 Math Co-processor, which greatly increases the speed of math calculations.

### **Keyboard highlights at a glance:**

- ▶ 83-key, typewriter-like keyboard that attaches directly to the front panel of the computer for protection, easy storage and handling.
- ▶ 30-inch coiled cable that permits convenient movement of the keyboard.
- ▶ Tactile and audio feedback to help reduce typing errors and enhance productivity.
- ▶ 10-digit calculator keypad for entering numbers quickly and easily.
- ▶ 10 special function keys to save time in activating commonly repeated tasks.
- ▶ Special "print screen" key that enables you to print out the image that appears on your display screen.
- ▶ Typing angle that can be adjusted to suit your working position.





## IBM PCjr

### System unit highlights at a glance:

#### *PCjr Enhanced Model*

- ▶ 128KB RAM (with 80-column text support) standard, expandable to 512KB with PCjr 128KB Memory Expansion Attachments.
- ▶ One 5<sup>1</sup>/<sub>4</sub>-inch, double-sided, 360KB-capacity slimline diskette drive.

#### *PCjr Entry Model*

- ▶ 64KB RAM (without 80-column text support) standard, expandable to 128KB with the 64KB Memory and Display Expansion option and the PCjr Diskette Drive option, and to 512KB with PCjr 128KB Memory Expansion Attachments and the PCjr Power Expansion Attachment.
- ▶ Option to add a 5<sup>1</sup>/<sub>4</sub>-inch, double-sided, 360KB-capacity slimline diskette drive.

#### *Both PCjr models include the following features:*

- ▶ 64KB ROM, which contains the easy-to-use BASIC language.
- ▶ Two cartridge slots for running IBM PCjr cartridge programs.
- ▶ High-performance, high-speed, 16-bit Intel 8088 microprocessor.
- ▶ Built-in connectors for attaching options.
- ▶ Automatic Power-on Self-test of system components.



### Keyboard highlights at a glance:

- ▶ Typewriter-like layout.
- ▶ 62 full-sized keys, designed for touch-typing.
- ▶ Tactile feel and response similar to that of the IBM PC Keyboard.
- ▶ Cordless; communicates with the system unit by using infrared signals, similar to the way a hand-held remote control unit operates a TV. (Optional PCjr Keyboard Cord is available.)
- ▶ Characters and symbols printed on keys; color-coded special characters.
- ▶ 10 dual-use function keys for activating frequently used commands.
- ▶ Easy storage in the PCjr Carrying Case.



## IBM Expansion Units

There are two IBM Expansion Units—Model 001 for the IBM PC and IBM *Portable* PC and Model 002 for the IBM PC XT. These Expansion Units increase the systems' storage capacity and expand their capabilities. Each Expansion Unit attaches directly to the system unit<sup>6</sup> and contains one 10MB fixed disk drive plus eight expansion slots<sup>7</sup> for adding features or devices with optional plug-in adapters.

When you use an Expansion Unit with the IBM PC or IBM *Portable* PC, you may also install a second 10MB fixed disk drive in the Expansion Unit. This provides the Expansion Unit with two fixed disk drives—up to 20MB of fixed disk storage.

When you use an Expansion Unit with the IBM PC XT, you must move the 10MB fixed disk drive from the system unit to the Expansion Unit. This provides the Expansion Unit with two fixed disk drives—up to 20MB (20,480,000 characters) of fixed disk storage. When you remove the fixed disk drive from the PC XT System Unit, you have the option of replacing it with another 360KB-capacity diskette drive.



## Display options

For viewing text, numeric data and other information on your personal computer from IBM, you can choose the IBM Enhanced Color Display, IBM Color Display, IBM PCjr Color Display, or IBM Monochrome Display. You also can use most video monitors<sup>8</sup> or television sets<sup>8</sup> with an RF modulator.<sup>8</sup>

### IBM Enhanced Color Display

For a wide selection of colors for graphics and high-contrast graphics and text, you can attach the IBM Enhanced Color Display to your IBM Personal Computer AT, IBM PC XT, or IBM PC by using the IBM Enhanced Graphics Adapter or Color/Graphics Monitor Adapter. The IBM Enhanced Color Display is not compatible with the IBM *Portable* PC or PCjr. The display offers:

- ▶ 12<sup>1</sup>/<sub>2</sub>-inch screen (diagonal measurement).
- ▶ Up to 64 colors for graphics (16 at one time) and 640 x 350 quality with the IBM Enhanced Graphics Adapter.<sup>9</sup>
- ▶ Up to 43 lines of uppercase and lowercase text, with 40 or 80 characters per line.
- ▶ 8 x 14-dot character box for high-quality text in color.
- ▶ Dark, etched screen for high contrast and reduced glare.
- ▶ Brightness and contrast controls for easy adaptability to room lighting and personal viewing preference.

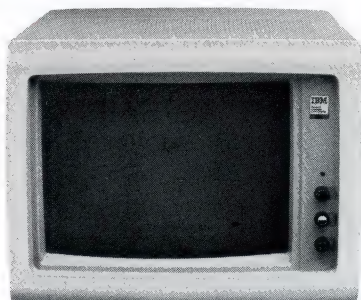




### IBM Color Display

For high-quality color graphics and text, you can attach the IBM Color Display<sup>10</sup> to your IBM Personal Computer AT, PC XT, PC or *Portable* PC by using the IBM Color/ Graphics Monitor Adapter or IBM Enhanced Graphics Adapter.<sup>11</sup> You can attach the IBM Color Display to your PC<sub>jr</sub> by using the IBM PC<sub>jr</sub> Adapter Cable for the IBM Color Display. The display offers:

- ▶ 12<sup>1</sup>/<sub>2</sub>-inch screen (diagonal measurement).
- ▶ 16 foreground colors on any one of 8 background colors (two sets of 4 colors each); 16 colors at one time with the IBM Enhanced Graphics Adapter.
- ▶ Up to 25 lines of uppercase and lowercase text, with 40 or 80 characters per line.
- ▶ Black-and-white graphics mode.
- ▶ Brightness and contrast controls for viewing comfort.
- ▶ Highlighting choices that include blinking, reverse image and high intensity.



### IBM PC<sub>jr</sub> Color Display

For high-quality color graphics and text on your IBM PC<sub>jr</sub>, you can plug the IBM PC<sub>jr</sub> Color Display<sup>10</sup> directly into the back of your IBM PC<sub>jr</sub> System Unit. The display—designed exclusively for the IBM PC<sub>jr</sub>—offers:

- ▶ 13-inch screen (diagonal measurement).
- ▶ 16 colors (up to 8 at one time).
- ▶ Up to 25 lines of uppercase and lowercase text, with 40 or 80 characters per line.
- ▶ 8 x 8-dot character box.
- ▶ Internal speaker and earphone connector.
- ▶ Non-glare screen that tilts as much as 10° for viewing comfort.
- ▶ Brightness, contrast and volume controls.



## IBM Monochrome Display

For clear and easy-to-read text, you can attach the IBM Monochrome Display to your IBM Personal Computer AT, PC XT or PC with an IBM Monochrome Display and Printer Adapter.<sup>11</sup> The IBM Monochrome Display is not compatible with the IBM *Portable* PC or IBM PCjr. The display offers:

- ▶ Green phosphor characters on an 11½-inch (diagonal measurement), anti-glare screen.
- ▶ Up to 25 lines of uppercase and lowercase text, with 80 characters per line.
- ▶ 7 x 9-dot text character size within a 9 x 14-dot box.
- ▶ Brightness and contrast controls for viewing comfort.
- ▶ High-quality graphics capability with the IBM Enhanced Graphics Adapter.
- ▶ Highlighting choices that include underlining, blinking, reverse image and high intensity.



## Printer options

To transfer text and graphics from your display screen to paper, you can use any of IBM's three high-quality printers.

### **IBM Personal Computer Color Printer<sup>12</sup>**

This high-performance dot-matrix printer enables you to add up to eight colors to graphics and text printouts. The printer, which supports the IBM Personal Computer AT, PC XT and PC, offers:

- ▶ All-points-addressable graphics and 256 text characters.
- ▶ Choice of eight-color, four-color or black-only ribbon cartridges.
- ▶ Bidirectional print speeds ranging from 35 CPS (characters per second) for near letter quality to 200 CPS for data-processing quality.
- ▶ User-programmable features that include spacing, margins, tabs, underlining, and more.
- ▶ 8 x 9-dot character matrix (draft mode).
- ▶ IBM PC Parallel Interface.
- ▶ Tractor and friction feed support.
- ▶ 13.2-inch print line.

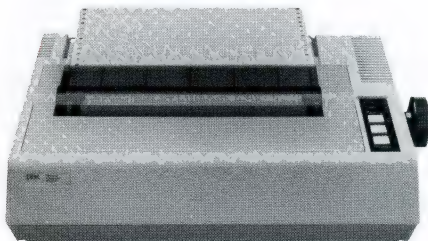




### IBM Graphics Printer<sup>12</sup>

This versatile matrix printer can be easily attached to your IBM Personal Computer AT, PC XT, PC, *Portable* PC and PCjr. It offers:

- ▶ Both graphic images and text characters.
- ▶ 9 x 9-dot character matrix.
- ▶ Choice of 18 different printing styles.
- ▶ Bidirectional printing speeds of up to 80 CPS.
- ▶ Four modes of all-points-addressable graphics.
- ▶ IBM PC Parallel Interface.



### IBM PC Compact Printer<sup>12</sup>

This lightweight, low-cost printer is specifically designed for use with the IBM PCjr to produce both text and graphics. It also can be used with the IBM PC XT, PC and *Portable* PC. The printer offers:

- ▶ 5 x 8-dot text character matrix and graphics.
- ▶ Continuous-roll, single-sheet or fanfold thermal paper.
- ▶ Printing speeds of up to 50 CPS.
- ▶ Four printing styles.
- ▶ All-points-addressable graphics.
- ▶ Serial Interface.



## Other options

### Optional devices for the IBM Personal Computer AT:

- ▶ *IBM Personal Computer AT Memory Module Kit*—expands base model's user memory from 256KB to 512KB.
- ▶ *IBM Personal Computer AT 128KB Memory Expansion*—expands user memory from 512KB to 640KB.
- ▶ *IBM Personal Computer AT 512KB Memory Adapter*—allows user memory to be expanded to 3MB.
- ▶ *IBM Personal Computer AT 20MB Fixed Disk Drive*—may be used as the first or second fixed disk drive installed in the base model or as the second fixed disk drive installed in the enhanced model.
- ▶ *IBM Personal Computer AT High-Capacity Diskette Drive*—adds 1.2MB of data storage capacity to the system.
- ▶ *IBM Personal Computer AT Double-Sided Diskette Drive*—provides software compatibility with other IBM Personal Computers that have 320/360KB diskette drives.
- ▶ *IBM Serial/Parallel Adapter*—allows the Personal Computer AT to accept up to two parallel (printer) adapter cards for attaching the IBM Personal Computer Color Printer, IBM Graphics Printer, or another compatible printer.

**Optional devices for the IBM Personal Computer AT, PC XT, PC and *Portable* PC:**

- ▶ *IBM Enhanced Graphics Adapter*—supports the IBM Enhanced Color Display, IBM Color Display, and IBM Monochrome Display (not compatible with the *Portable* PC).
- ▶ *IBM Color/Graphics Monitor Adapter* (standard on *Portable* PC)—supports the IBM Enhanced Color Display, IBM Color Display, or a video monitor.
- ▶ *IBM Monochrome Display and Printer Adapter*—provides a parallel port for attaching either the IBM Monochrome Display or a printer.
- ▶ *IBM 64/256KB Memory Expansion Option*—plugs into the system board to expand user memory by increments of 64KB, up to 256KB (not compatible with the Personal Computer AT).
- ▶ *IBM 256KB Memory Expansion Option*—plugs into an expansion slot to provide 256KB of additional user memory (fully compatible with the IBM 64/256KB Memory Expansion Option).
- ▶ *IBM PC Cluster Adapter*—allows IBM PCs to be interconnected within the IBM PC Cluster configuration.
- ▶ *IBM PC Network Adapter*—allows IBM PCs to connect to the IBM PC Network.
- ▶ *IBM Communications Adapters*—three different adapters—the Asynchronous Communications Adapter (not supported by the Personal Computer AT), Binary Synchronous Communications Adapter, and Synchronous Data Link Control Communications Adapter—enable you to access subscription information and service networks,<sup>13</sup> “host” systems and other remote devices by emulating:
  - Terminals using asynchronous protocols, such as the IBM 3101 and a start/stop teletypewriter.
  - IBM Systems Network Architecture (SNA) 3270 series of display stations using SDLC protocols.
  - SNA Remote Job Entry (RJE) terminal using SDLC protocols.
  - IBM 3270-type terminal using BSC protocols.
- ▶ *IBM Game Control Adapter*—supports one or more joysticks for entertainment programs.
- ▶ *IBM Prototype Card*—used as a base for building and testing custom attachments. (The Personal Computer AT has its own unique prototype card.)



### **Optional devices for the IBM PCjr:**

- ▶ *IBM PCjr 64KB Memory and Display Expansion*—plugs into the PCjr System Board to provide 80-column text support and to increase user memory from 64KB to 128KB.
- ▶ *IBM PCjr 128KB Memory Expansion Attachments*—attach to the side of the system unit to provide an additional 128KB of contiguous user memory when used with the IBM PCjr Diskette Drive option (included with the PCjr Enhanced Model).
- ▶ *IBM PCjr Power Expansion Attachment*—connects to the side of the system unit to provide additional power for the operating system; must be in place before installing more than one PCjr Memory Expansion Attachment; required when using the IBM PCjr Cluster Attachment with the PCjr Enhanced Model.
- ▶ *IBM PCjr Internal Modem*—facilitates 300-baud telecommunications; accesses compatible computers over standard phone lines.
- ▶ *IBM PCjr Parallel Printer Attachment*—connects to the side of the system unit to attach a parallel printer, such as the IBM Personal Computer Color Printer or IBM Graphics Printer.
- ▶ *IBM PCjr Connector for TV* (RF modulator)—enables the PCjr to use most television sets as a display.
- ▶ *IBM PCjr Adapter Cable for Serial Devices*—supports serial devices and/or an external modem.<sup>14</sup>
- ▶ *IBM PCjr Adapter Cable for Cassettes*—enables most cassette players/recorders<sup>14</sup> to be connected to the PCjr.
- ▶ *IBM PCjr Speech Attachment*—supports speech and sound for specially designed software programs.
- ▶ *IBM PCjr Attachable Joystick*—provides two-dimensional positioning control for entertainment programs.
- ▶ *IBM PCjr Keyboard Cord*—converts the cordless IBM PCjr Keyboard into an attached keyboard when more than one PCjr is used or when battery operation is not desired.
- ▶ *IBM PCjr Cluster Attachment*—allows PCjrs to be cable-connected in a cluster configuration for communications and/or for accessing a file server computer such as the IBM PC XT.
- ▶ *IBM PCjr Diskette Drive* (standard on the PCjr Enhanced Model)—a 5<sup>1</sup>/<sub>4</sub>-inch, double-sided, 360KB-capacity slimline diskette drive.
- ▶ *IBM PCjr Adapter Cable for the IBM Color Display*—allows connection of the PCjr to the IBM Color Display.
- ▶ *IBM PCjr Carrying Case*—durable, molded plastic case lets you carry the PCjr almost anywhere.

## IBM Personal Computer Cluster

The IBM Personal Computer Cluster is a hardware/software offering that supports the exchange of information among IBM Personal Computers connected by coaxial cable.

The IBM Personal Computer Cluster allows messages and files to be exchanged quickly between any two computers in the cluster. This fast information transfer capability increases communications and productivity.

The IBM PCs in an IBM Personal Computer Cluster can share a common fixed disk, thereby reducing the number of diskette drives (and corresponding diskette handling) required at each station. If PCjr's without diskette drives are included in the cluster, the Cluster Program will automatically download DOS from the disk-server station when the computers are turned on.

### Highlights at a glance:

- ▶ Low-priced, multistation configuration.
- ▶ Supports the IBM PC XT, PC, *Portable* PC and PCjr.
- ▶ Enables programs and information to be accessed by all stations from a public, read-only area on a shared disk.
- ▶ Provides each station with its own read/write area on a fixed disk for private files.
- ▶ Downloads DOS from the shared disk.
- ▶ Supports exchange of messages or transfer of files from computer to computer.
- ▶ Supports up to 64 PCs (actual number depends on user's application capabilities and performance requirements).

## Hardware specifications

### **IBM Personal Computer AT System Unit**

*Size:* width—21.3", depth—17.3", height—6.4"

*Weight:* Base model—approximately 37 lbs.; enhanced model—approximately 42 lbs.

*User Memory:* cycle time—275 nanoseconds; access time—150 nanoseconds.

*Environment:* air temperature—60°F to 90°F system ON, 50°F to 110°F system OFF; humidity—8% to 80%; noise level—42dB (system unit only); electrical—90 to 137V or 180-259V AC, 50 to 60 cycles; power supply—192 watts.

### **IBM Personal Computer AT Keyboard**

*Size:* width—18.4", depth—8.3", height—1.5"

*Weight:* approximately 6 lbs.

### **IBM Personal Computer XT System Unit**

*Size:* width—20", depth—16", height—6"

*Weight:* 32 lbs.

*User Memory:* cycle time—410 nanoseconds; access time—250 nanoseconds.

*Environment:* air temperature—60°F to 90°F system ON, 50°F to 110°F system OFF; humidity—8% to 80%; noise level—59dB (system unit only); electrical—120V AC, 60 cycles; power supply—200 watts.

### **IBM Personal Computer System Unit**

*Size:* width—20", depth—16", height—5.5"

*Weight:* without diskette drive—21 lbs.; with one drive—25 lbs.; with two drives—28 lbs.

*User Memory:* cycle time—410 nanoseconds; access time—250 nanoseconds.

*Environment:* air temperature—60°F to 90°F system ON, 50°F to 110°F system OFF; humidity—8% to 80%; noise level—59dB (system unit only); electrical—120V AC, 60 cycles; power supply—200 watts.

### **IBM PC and IBM PC XT Keyboard**

*Size:* width—20", depth—8", height—2"

*Weight:* 6 lbs.

### **IBM Portable PC System Unit**

*Size:* width—20", depth—17", height—8"

*Weight:* about 30 lbs., including keyboard.

*Read Only Memory:* cycle time—250 nanoseconds; access time—250 nanoseconds.

*User Memory:* cycle time—345 nanoseconds; access time—200 nanoseconds.

*Environment:* air temperature—60°F to 90°F system ON, 50°F to 110°F system OFF; humidity—8% to 80%; noise level—49.5dB (system unit only); electrical—115 to 230V AC switchable, 50 to 60 cycles; power supply—international, 114 watts.

### **IBM Portable PC Keyboard**

*Size:* width—18", depth—7.5", height—1.5"

*Weight:* 4 lbs., included in system unit weight.



**IBM PCjr System Unit**

*Size:* width—13.9", depth—11.4", height—3.8"

*Weight:* Entry model—less than 6 lbs.; enhanced model—less than 9 lbs.

*Internal Memory:* cycle time—375 nanoseconds; access time—250 nanoseconds.

*Environment:* air temperature—60°F to 90°F system ON, 50°F to 110°F system OFF; humidity—8% to 80%; noise level—45dB (system unit only); electrical—120V AC, 60 cycles; power supply—33 watts, DC output.

**IBM PCjr Keyboard**

*Size:* width—13.5", depth—6.6", height—1"

*Weight:* without batteries—25 oz.; with batteries—28 oz.

**IBM Expansion Unit**

*Size:* width—20", depth—16", height—6"

*Weight:* 27 lbs.

*Fixed disk transfer rate:* 5M bits per second.

*Fixed disk average access time:* 90 milliseconds.

*Environment:* air temperature—60°F to 90°F system ON, 50°F to 110°F system OFF; humidity—8% to 80% system ON, 20% to 80% system OFF; noise level—59dB (Expansion Unit only); electrical—120V AC, 60 cycles; power supply—200 watts.

**IBM Enhanced Color Display**

*Size:* width—15.5", depth—17", height—11.5"

*Weight:* 32 lbs.

**IBM Color Display**

*Size:* width—15.5", depth—17", height—11.5"

*Weight:* 26 lbs.

**IBM PCjr Color Display**

*Size:* width—13.9", depth—15", height—12.9"

*Weight:* 26 lbs.

**IBM Monochrome Display**

*Size:* width—14.9", depth—13.7", height—11"

*Weight:* 17.3 lbs.

**IBM Personal Computer Color Printer**

*Size:* width—22.8", depth—13.9", height—10"

*Weight:* 40 lbs.

**IBM Graphics Printer**

*Size:* width—16", depth—15", height—4.5"

*Weight:* 13 lbs.

**IBM PC Compact Printer**

*Size:* width—12.3", depth—8.7", height—3.5"

*Weight:* 6.6 lbs.

All specifications subject to change without notice.

## Notes

- <sup>1</sup>One slot is already occupied by the standard Fixed Disk Drive/Diskette Drive Adapter in both the base and enhanced models; the Serial/Parallel Adapter occupies a second slot in the enhanced model; a third expansion slot must be used for the user's choice of display adapter.
- <sup>2</sup>The IBM Disk Operating System (DOS) 2.00 or higher increases the formatted capacity of 320KB diskettes to 360KB.
- <sup>3</sup>Three slots are occupied by standard Asynchronous Communications, Fixed Disk Drive, and Diskette Drive Adapters; one additional expansion slot must be used for the user's choice of display adapter. When an Expansion Unit is added, two slots are occupied by the attachment cards used to connect the IBM Personal Computer XT to the Expansion Unit.
- <sup>4</sup>One slot is occupied by a Diskette Drive Adapter when diskette drives are installed; one additional expansion slot must be used for the user's choice of display adapter. When an Expansion Unit is added, two slots are occupied by the attachment cards used to connect the IBM Personal Computer to the Expansion Unit.
- <sup>5</sup>Two slots are occupied by the standard Diskette Drive Adapter and IBM Color/Graphics Monitor Adapter; in addition, when an Expansion Unit is added, two slots are occupied by the attachment cards used to connect the IBM *Portable* Personal Computer to the Expansion Unit.
- <sup>6</sup>An additional electrical outlet is required for the IBM Expansion Unit.
- <sup>7</sup>When an Expansion Unit is added, one expansion slot in both the Expansion Unit and the system unit is occupied by the attachment cards used to connect the system unit to the Expansion Unit.
- <sup>8</sup>Video monitors, TV sets and RF modulators are not part of the IBM Personal Computer offering and must be purchased separately.
- <sup>9</sup>Some models of the IBM Personal Computer may require a new ROM BIOS module.
- <sup>10</sup>An additional electrical outlet is required for the IBM Color Display and the IBM *PCjr* Color Display.
- <sup>11</sup>Does not support an RF modulator or TV attachment.
- <sup>12</sup>An additional electrical outlet is required for an IBM printer.
- <sup>13</sup>Subscription information and service networks are not part of the IBM Personal Computer offering and must be purchased separately.
- <sup>14</sup>External modems and cassette players/recorders are not part of the IBM Personal Computer offering and must be purchased separately.





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